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(54) MODIFIED MAJOR MITE ALLERGEN AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To obtain a new allergen useful as a therapeutic agent for allergic diseases due to mite allergens.

CONSTITUTION: This modified allergen is obtained by substituting cysteine residue in a major mite allergen Der fII with serine residue according to the genetic engineering. The gene capable of coding the major mite allergen Der fII has a DNA sequence expressed by the formula, etc., and is obtained from a culture prepared by culturing a prokaryote or a eucaryote transformed with a replication vector containing a gene capable of coding the modified Der fII in which the cysteine residue in the major mite allergen Der fII is substituted with the serine residue.

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1 Asp Cys Val Asp Val Lys Asp Cys Ala Asn Asn Glu Ile Lys Lys Val
 1 GAT CAA GTC GAT GTT AAA GAT TGT CCC AAC AAT GAA ATC AAA AAA GTA
 17 Met Val Asp Gly Cys His Gly Ser Asp Pro Cys Ile Ile His Arg Gly
 49 ATG GTC GAT GGT TGC CAT GGT TCT GAT CCA TGC ATC ATC CAT CGT GCT
 88 Lys Pro Phe Thr Leu Glu Ala Leu Phe Asp Ala Asn Gln Asn Thr Lys
 97 AAA CCA TTC ACT TTG GAA GCC TTA TTC GAT GCC AAC CAA AAC ACT AAA
 49 Thr Ala Lys Ile Glu Ile Lys Ala Ser Leu Asp Gly Leu Glu Ile Asp
 145 ACC GCT AAA ATT GAA ATC AAA GCC AGC CTC GAT GGT CTT GAA ATT GAT
 65 Val Pro Gly Ile Asp Thr Asp Ala Cys His Phe Met Lys Cys Pro Leu
 193 GTT CCC GGT ATC GAT ACC AAT GCT TGC CAT TTT ATG AAA TGT CCA TTC
 81 Val Lys Gly Gln Gln Tyr Asp Ala Lys Tyr Thr Trp Asn Val Pro Lys
 241 GTT AAA GGT CAA CAA TAT GAT GCC AAA TAT ACA TGG AAT GTG CGG AAA
 97 Ile Ala Pro Lys Ser Glu Asn Val Val Thr Val Lys Leu Val Gly
 289 ATT GCA CCA AAA TCT GAA AAC GGT GTC GTT ACA GTC AAA CCT GTT GGT
 113 Asp Asn Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile Arg
 237 GAT AAA GGT GTT TGT CCT TGC GCT ATT GCT ACC CAC GCT AAA ATC CCT
 129 Asp ***
 285 GAT TAA